PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 09:42:54 ON 10 MAR 2003
FILE 'CAPLUS' ENTERED AT 09:42:54 ON 10 MAR 2003
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.43	6.14

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.84	6.55

FILE 'REGISTRY' ENTERED AT 09:43:39 ON 10 MAR 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 9 MAR 2003 HIGHEST RN 497220-90-3
DICTIONARY FILE UPDATES: 9 MAR 2003 HIGHEST RN 497220-90-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

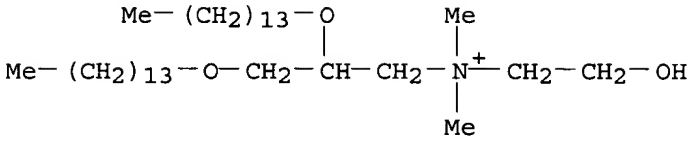
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> s dmrie/cn
L13   1 DMRIE/CN

=> d l13

L13 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN   153312-64-2 REGISTRY
CN   1-Propanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-2,3-bis(tetradecyloxy)-,
     bromide (9CI) (CA INDEX NAME)
OTHER NAMES:
CN   **DMRIE**
CN   N-[1-(2,3-Ditetradecyloxy)propyl]-N,N-dimethyl-N-hydroxyethylammonium
     bromide
DR   146659-77-0
MF   C35 H74 N O3 . Br
CI   COM
SR   CA
LC   STN Files: BIOSIS, CA, CANCERLIT, CAPLUS, IPA, MEDLINE, TOXCENTER,
       USPATFULL
CRN (191980-81-1)



114 REFERENCES IN FILE CA (1962 TO DATE)
6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
114 REFERENCES IN FILE CAPLUS (1962 TO DATE)

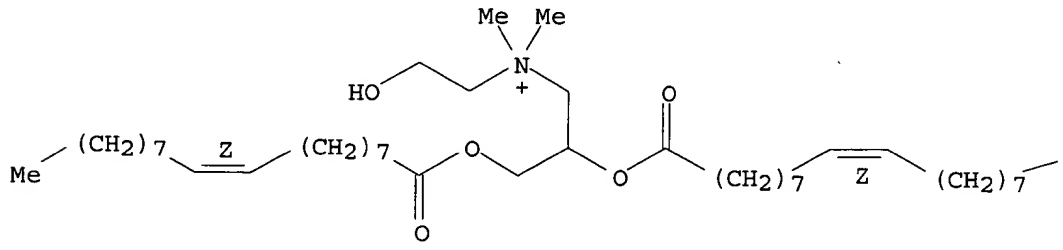
=> s dorie/cn
L14 2 DORIE/CN

=> d l14 1-2

L14 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS
RN 153985-22-9 REGISTRY
CN 1-Propanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-2,3-bis[[(9Z)-1-oxo-9-octadecenyl]oxy]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-2,3-bis[(1-oxo-9-octadecenyl)oxy]-, (Z,Z)-
OTHER NAMES:
CN **DORIE**
FS STEREOSEARCH
DR 139191-30-3
MF C43 H82 N O5
CI COM
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Double bond geometry as shown.

PAGE 1-A



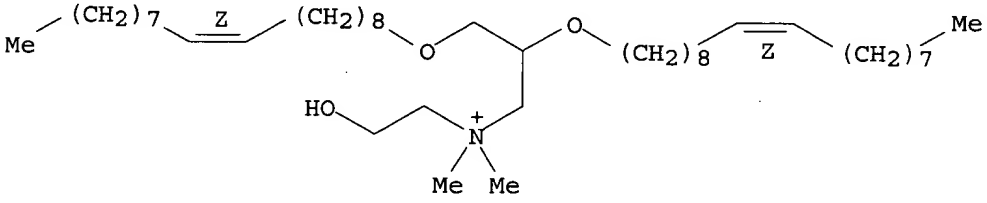
PAGE 1-B

Me

8 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
8 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L14 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS
RN 153312-60-8 REGISTRY
CN 1-Propanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-2,3-bis[(9Z)-9-octadecenyloxy]-, bromide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-2,3-bis(9-octadecenyloxy)-, bromide, (Z,Z)-
OTHER NAMES:
CN **DORIE**
FS STEREOSEARCH
MF C43 H86 N O3 . Br
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (153985-18-3)

Double bond geometry as shown.



4 REFERENCES IN FILE CA (1962 TO DATE)
4 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> s dotma/cn
L15 1 DOTMA/CN

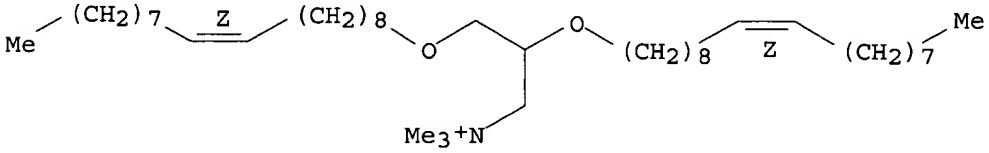
=> s ddab/cn
L16 3 DDAB/CN

=> d l15

L15 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN 104162-48-3 REGISTRY
CN 1-Propanaminium, N,N,N-trimethyl-2,3-bis[(9Z)-9-octadecenyloxy]-, chloride

(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propanaminium, N,N,N-trimethyl-2,3-bis(9-octadecenyloxy)-, chloride, (Z,Z)-
OTHER NAMES:
CN **DOTMA**
CN N-[1-(2,3-Dioleyloxy)propyl]-N,N,N-trimethylammonium chloride
FS STEREOSEARCH
DR 104805-61-0, 375346-70-6
MF C42 H84 N O2 . Cl
CI COM
SR CA
LC STN Files: ADISNEWS, AGRICOLA, BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAPLUS, CHEMCATS, CIN, MEDLINE, PROMT, TOXCENTER, USPAT2, USPATFULL
CRN (122342-03-4)

Double bond geometry as shown.



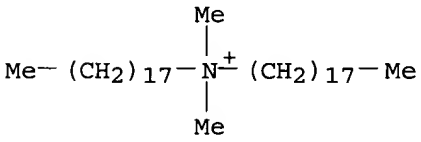
● Cl⁻

191 REFERENCES IN FILE CA (1962 TO DATE)
14 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
191 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> d l16 1-3

L16 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2003 ACS
RN 3700-67-2 REGISTRY
CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, bromide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Ammonium, dimethyldioctadecyl-, bromide (8CI)
CN Dimethyldioctadecylammonium bromide (6CI, 7CI)
OTHER NAMES:
CN Bis(octadecyl)dimethylammonium bromide
CN **DDAB**
CN Di-n-octadecyldimethylammonium bromide
CN Dimethyldistearylammonium bromide
CN Dioctadecanyldimethylammonium bromide
CN Dioctadecyldimethylammonium bromide
CN Distearyldimethylammonium bromide
CN DODA(Br)
CN DODAB
CN DSDMAB
CN GERBU Adjuvant 10
CN GERBU Adjuvant 100
DR 134821-46-8
MF C38 H80 N . Br
CI COM

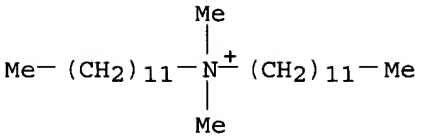
LC STN Files: ADISNEWS, AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, DETHERM*, EMBASE, GMELIN*, IPA, MSDS-OHS, PROMT, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (14357-21-2)



● Br^-

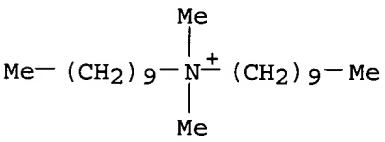
819 REFERENCES IN FILE CA (1962 TO DATE)
25 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
822 REFERENCES IN FILE CAPLUS (1962 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L16 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2003 ACS
RN 3282-73-3 REGISTRY
CN 1-Dodecanaminium, N-dodecyl-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Ammonium, didodecyldimethyl-, bromide (8CI)
CN Didodecyldimethylammonium bromide (7CI)
OTHER NAMES:
CN Bis(dodecyl)dimethylammonium bromide
CN Bis(n-dodecyl)dimethylammonium bromide
CN **DDAB**
CN Di-n-dodecyldimethylammonium bromide
CN Dilauryldimethylammonium bromide
CN Dimethyldidodecylammonium bromide
CN Dimethyldilaurylammonium bromide
MF C26 H56 N . Br
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CSCHEM, DETHERM*, GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA, MSDS-OHS, PROMT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (13146-86-6)



692 REFERENCES IN FILE CA (1962 TO DATE)
23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
694 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L16 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2003 ACS
RN 2390-68-3 REGISTRY
CN 1-Decanaminium, N-decyl-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Ammonium, didecyldimethyl-, bromide (8CI)
CN Didecyl dimethyl ammonium bromide (6CI, 7CI)
OTHER NAMES:
CN Bromosept
CN **DDAB**
CN Deciquam
CN Deciquam 222
MF C22 H48 N . Br
CI COM
LC STN Files: ADISNEWS, AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, GMELIN*, IFICDB, IFIPAT, IFIUDB, PROMT, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (20256-56-8)



214 REFERENCES IN FILE CA (1962 TO DATE)
9 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
214 REFERENCES IN FILE CAPLUS (1962 TO DATE)
12 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

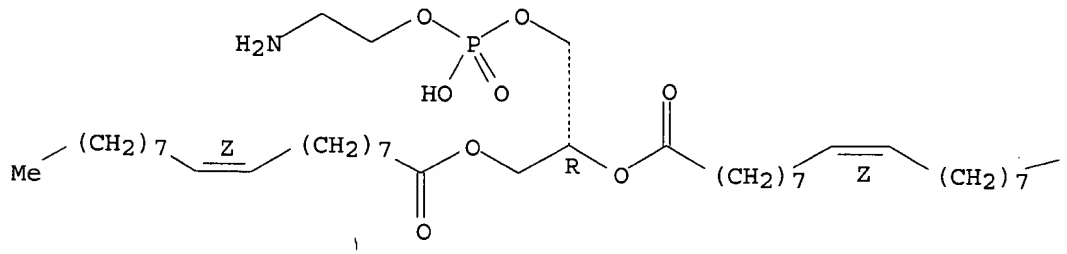
=> s dope/cn
L17 2 DOPE/CN

=> d l17 1-2

L17 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS
RN 4004-05-1 REGISTRY
CN 9-Octadecenoic acid (9Z)-,
(1R)-1-[[[(2-aminoethoxy)hydroxyphosphinyl]oxy]
methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9-Octadecenoic acid (Z)-,
1-[[[(2-aminoethoxy)hydroxyphosphinyl]oxy]methyl
]-1,2-ethanediyl ester, (R)-
CN Ethanol, 2-amino-, dihydrogen phosphate (ester), monoester with
1,2-diolein, L- (8CI)
CN Olein, 1,2-di-, 2-aminoethyl hydrogen phosphate, L- (8CI)
OTHER NAMES:
CN 1,2-Dioleoyl-sn-glycero-3-phosphatidylethanolamine
CN 1,2-Dioleoyl-sn-glycero-3-phosphoethanolamine
CN 1,2-Dioleoyl-sn-glycero-3-phosphoethanolamine
CN 1,2-Dioleoyl-sn-glycero-3-phosphorylethanolamine
CN Dioleoyl-L-.alpha.-phosphatidylethanolamine
CN Dioleoylphosphatidylethanolamine
CN **DOPE**
CN L-.alpha.-Dioleoylphosphatidylethanolamine
FS STEREOSEARCH
DR 143062-82-2
MF C41 H78 N O8 P
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD,
CAPLUS,
CASREACT, CHEMCATS, CSCHEM, PROMT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

Me

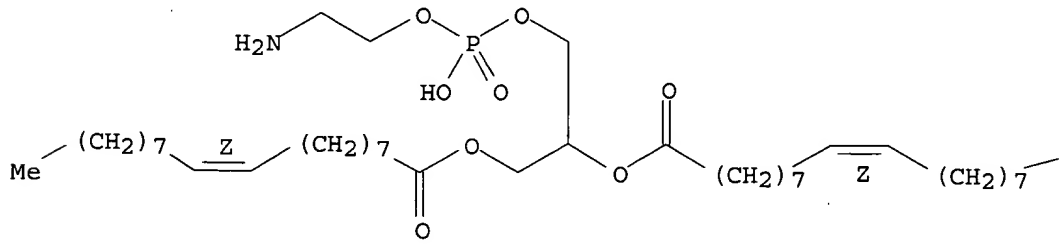
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

524 REFERENCES IN FILE CA (1962 TO DATE)
15 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
530 REFERENCES IN FILE CAPLUS (1962 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L17 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS
RN 2462-63-7 REGISTRY
CN 9-Octadecenoic acid (9Z)-,
1-[[[(2-aminoethoxy)hydroxyphosphinyl]oxy]methy
l]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9-Octadecenoic acid (Z)-,
1-[[[(2-aminoethoxy)hydroxyphosphinyl]oxy]methyl
]-1,2-ethanediyl ester
CN Ethanol, 2-amino-, dihydrogen phosphate (ester), monoester with
1,2-diolein (8CI)
CN Olein, 1,2-di-, 2-aminoethyl hydrogen phosphate (8CI)
CN Olein, 1,2-di-, dihydrogen phosphate, 2-aminoethyl ester (7CI)
CN Olein, 1,2-di-, phosphate, 2-aminoethyl ester (6CI)
OTHER NAMES:
CN 1,2-Dioleoyl phosphatidyl ethanolamine
CN Dioleoyl (glycerophospho)ethanolamine
CN Dioleoyl phosphatidylethanolamine
CN DL-Dioleoylphosphatidylethanolamine
CN **DOPE**
CN LipofectACE
FS STEREOSEARCH
DR 159317-98-3, 5683-54-5
MF C41 H78 N O8 P
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA,
CANCERLIT, CAOLD, CAPLUS, CSCHEM, EMBASE, IPA, MEDLINE, PROMT,
TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)

Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

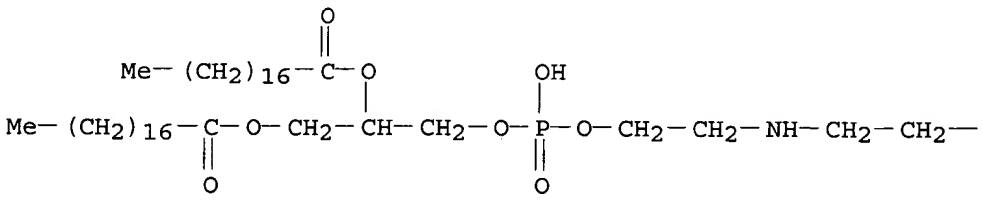
Me

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

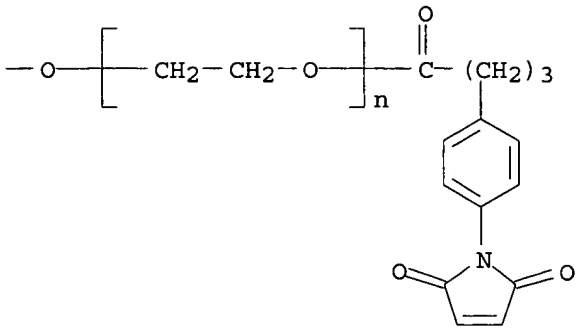
955 REFERENCES IN FILE CA (1962 TO DATE)
47 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
956 REFERENCES IN FILE CAPLUS (1962 TO DATE)
19 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> s dspe/cn
L18           0 DSPE/CN

=> s dspe
L19          13 DSPE

=> s l19 and peg
            196 PEG
L20           4 L19 AND PEG

=> d 1-4

L20  ANSWER 1 OF 4  REGISTRY  COPYRIGHT 2003 ACS
RN   319491-61-7  REGISTRY
CN   Poly(oxy-1,2-ethanediyl),
.alpha.-[4-[4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-
     yl)phenyl]-1-oxobutyl]-.omega.-[[7-hydroxy-7-oxido-13-oxo-10-[(1-
     oxooctadecyl)oxy]-6,8,12-trioxa-3-aza-7-phosphatriacont-1-yl]oxy]- (9CI)
     (CA INDEX NAME)
OTHER NAMES:
CN   DSPE-PEG-MPB
MF   (C2 H4 O)n C57 H97 N2 O12 P
CI   PMS
PCT  Polyether
SR   CA
LC   STN Files:   CA, CAPLUS
```

PAGE 1-A



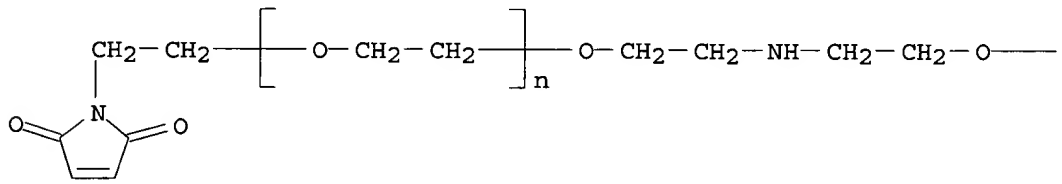
PAGE 1-B



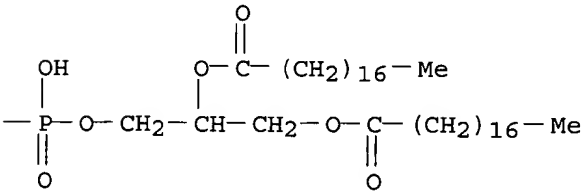
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L20 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2003 ACS
RN 208044-76-2 REGISTRY
CN Poly(oxy-1,2-ethanediyl), .alpha.-[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]-.omega.-[[7-hydroxy-7-oxido-13-oxo-10-[(1-oxooctadecyl)oxy]-6,8,12-trioxa-3-aza-7-phosphatriacont-1-yl]oxy]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN **DSPE-PEG-maleimide**
DR 441788-07-4, 444083-99-2
MF (C2 H4 O)n C49 H91 N2 O11 P
CI PMS
PCT Polyether
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

PAGE 1-A



PAGE 1-B

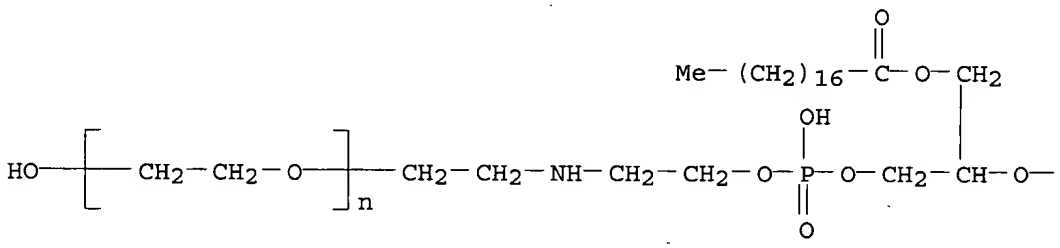


12 REFERENCES IN FILE CA (1962 TO DATE)

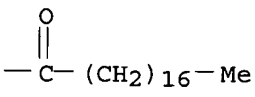
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
12 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L20 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2003 ACS
RN 170931-04-1 REGISTRY
CN Poly(oxy-1,2-ethanediyl), .alpha.-[(10R)-7-hydroxy-7-oxido-13-oxo-10-[(1-oxooctadecyl)oxy]-6,8,12-trioxa-3-aza-7-phosphatriacont-1-yl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Poly(oxy-1,2-ethanediyl), .alpha.-[7-hydroxy-7-oxido-13-oxo-10-[(1-oxooctadecyl)oxy]-6,8,12-trioxa-3-aza-7-phosphatriacont-1-yl]-.omega.-hydroxy-, (R)-
OTHER NAMES:
CN 1,2-Distearoyl-sn-glycero-3-phosphoethanolamine-N-[poly(ethylene glycol)]
CN **DSPE-PEG**
CN **PEG-DSPE**
CN Poly(oxy-1,2-ethanediyl), .alpha.-[7-hydroxy-13-oxo-10-[(1-oxooctadecyl)oxy]-6,8,12-trioxa-3-aza-7-phosphatriacont-1-yl]-.omega.-hydroxy-, P-oxide, (R)-
MF (C2 H4 O)n C43 H86 N O9 P
CI PMS
PCT Polyether
SR CA
LC STN Files: ADISNEWS, BIOSIS, CA, CAPLUS, TOXCENTER, USPATFULL

PAGE 1-A



PAGE 1-B



49 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
50 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L20 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2003 ACS
RN 145035-96-7 REGISTRY
CN Poly(oxy-1,2-ethanediyl), .alpha.-[7-hydroxy-7-oxido-13-oxo-10-[(1-oxooctadecyl)oxy]-6,8,12-trioxa-3-aza-7-phosphatriacont-1-yl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Poly(oxy-1,2-ethanediyl), .alpha.-[7-hydroxy-13-oxo-10-[(1-

oxooctadecyl)oxy]-6,8,12-trioxa-3-aza-7-phosphatriacont-1-yl]-.omega.-hydroxy-, P-oxide

OTHER NAMES:

CN **Distearoylphosphatidylethanolamine-PEG**

CN **DSPE-PEG**

CN **PEG-DSPE**

MF (C2 H4 O)n C43 H86 N O9 P

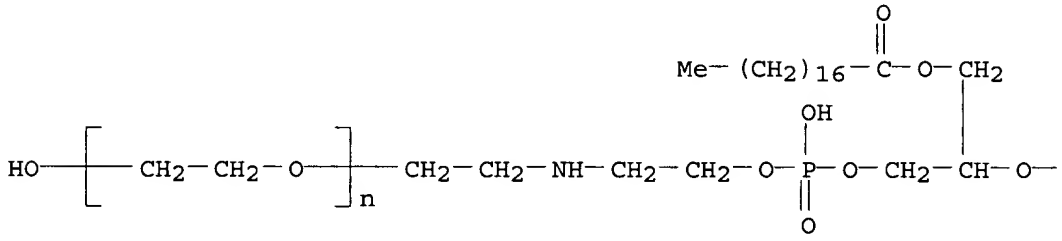
CI PMS, COM

PCT Polyether

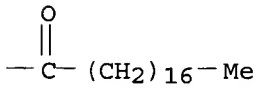
SR CA

LC STN Files: BIOSIS, CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL

PAGE 1-A



PAGE 1-B



128 REFERENCES IN FILE CA (1962 TO DATE)
14 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
131 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> log hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	60.40	66.95

SESSION WILL BE HELD FOR 60 MINUTES

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
AN 1996:724086 CAPLUS
DN 125:338691
TI Skin irritation-free stable cosmetics containing amido-containing anionic surfactants
IN Nishio, Hiroyuki; Tsubone, Kazuyuki
PA Kanebo Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
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